

WHAT IS CLAIMED IS:

1. A method of producing a magnetic disk, comprising:
forming at least a magnetic layer on a disk substrate, and
thereafter forming a carbon-based protection layer by plasma CVD
using a mixed gas of a hydrocarbon-based gas and a nitrogen gas without
containing an inactive gas under the condition that the disk substrate with the
magnetic layer formed thereon is kept at a temperature higher than 200°C.
2. A method according to claim 1, wherein:
the mixed gas is a mixture of a low-molecular-weight straight-chain
hydrocarbon-based gas and a nitrogen gas.
3. A method according to claim 1, further comprising:
exposing the carbon-based protection layer to nitrogen plasma after
forming the carbon-based protection layer.
4. A method according to claim 3, further comprising:
forming a lubrication layer after exposing the carbon-based protection
layer to nitrogen plasma.
5. A method according to claim 1, wherein
the magnetic disk is for use in a magnetic disk apparatus of a load/
unload system.